Series 3930^{HD} H.264 High Definition IP67 Fixed Camera System







- Superior HD Image Quality
- Powerful 30x Optical Zoom
- Electronic Image Stabilization
- Defog/Dehaze Analytics
- H.264/MJPEG Codecs
- Web Server Configuration, Operation and Viewing
- Automated Event Actions
- Pressurized IP67
 Protection
- NEMA TS2 Temperature Range, -40°C to 74°C

- NTCIP 1205 over IP Communication Support
- PoE+ Power
- Single Connector Simplicity
- Pendent, Wall, Pole and Corner Mounting Options
- ONVIF Profile S Compliant

CohuHD's 3930^{HD} fixed camera system combines crystal clear HD image quality, bandwidth efficient H.264 compression and IP67 protection delivering the Cohu quality and performance you expect!

The 3930^{HD} includes a choice of 720p30 cameras with up to 30x* optical zoom, delivering full frame rate HD images over the entire zoom range.

The built-in zoom capability enables up to 30x optical magnification in high definition and achieves quick subject tracking through its high speed auto focusing system. True day/night technology using a removable IR cut filter produces exceptional low light sensitivity down to 0.005 lx*.

For installations subject to wind or vibration, electronic image stabilization* assures a steady, clear image and enables the system designer to utilize existing bridge sign and traffic light poles for camera mounting.

The 3930^{+ID} includes defog* image processing capability, enhancing video performance in foggy conditions encountered in surveillance and traffic monitoring applications.

Providing multiple video stream capability, the 3930^{HD} delivers two independently configured H.264 streams or an H.264 with MJPEG output.

The 3930^{HD} provides a full function web server, allowing complete administrative and operator control capabilities. Administrative features include configuring network settings, user password assignments, setting video streaming properties, configuring camera imaging properties and assigning camera ID labels.

The 3930^{HD} is designed to operate in harsh weather with its IP67 enclosure protection. This eliminates the effects of water intrusion, pollutants and corrosives.

CohuHD delivers years of clean, reliable images and backs it with a world class two year warranty.









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COHU



Series 3930^{HD}

H.264 High Definition **IP67 Fixed Camera System**



CAMERA	
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Sensor Type Scanning System Pixel Array Active Resolution Frame Rate Camera Type Day/Night Modes

1/3" CCD Progressive 1296 x 966 1280 x 720

18x CAMERA

30 fps Day/Night (IR Cut Filter) Auto, Color, B/W

30x CAMERA

1/3" CCD Progressive 1296 x 966 1280 x 720 30 fps

Day/Night (IR Cut Filter) Auto, Color, B/W

0.5 lux (0.05 fc)

0.3 lux (0.03 fc)

0.05 lux (0.005 fc)

0.005 lux (0.0005 fc)

SENSITIVITY

Color, 1/30, f1.6, 50 IRE Color, 1/30, f1.6, 30 IRE Monochrome, 1/30, f1.6, 50 IRE Monochrome, 1/4, f1.6, 30 IRE

LENS/OPTICS

Zoom Lens Aperture (f stop) HAFOV Focus Iris Digital Zoom

IMAGE PROCESSING Image Stabilization

Dynamic Range Mode

Shutter/Integration

Defoa Mode

S/N Ratio

Back Light Comp Mode

1.8 lux (0.18 fc) 0.74 lux (0.074 fc) 0.18 lux (0.018 fc) 0.02 lux (0.002 fc)

18x, 4.7 to 84.6mm 1.6 -> 2.8 55.2° to 3.2° Auto / Manual [Near, Far] Auto / Manual [Open, Close] Not Available

30x, 4.4 to 132mm 1.4 -> 4.6 62.9° to 2.2° Auto / Manual [Near, Far] Auto / Manual [Open, Close]

Not Available On/Off On/Off 1/4 -> 1/10,000 Not Available > 50db

MPEG2 TS

Off/On [5 Hz or 10 Hz] On/Off On/Off 1/4 -> 1/10,000 Off/On [3 Levels + Color Saturation]

> 50db

2x

IP VIDEO

Streams Two (2) Individually configurable streams Codecs H.264 and MJPEG H.264 + H.264 Configurations H.264 + MJPEG Resolutions Stream 1 [720p, D1] Stream 2 [D1, CIF]] 30, 15, 7.5, 6, 5, 3.75, 3, Frame Rates

2, 1.875, 1 [Note: Stream 2 must be <= to Stream 1 frame

Data Rates Stream 2 [2 Mb to 256Kb]

Stream 1 [8 Mb to 256Kb]

Four (4) Frames [0.133 sec]

VIDEO CONNECTIONS

RTP/RTSP Eight (8) H.264, Eight (8

RTSP/Interleave Eight (8) H.264, Eight (8) **MJPEG**

RTSP Multicast Eight (8) H.264, Eight (8) **MJPFG**

HTTP Multicast Unlimited, H.264 and

MJPFG

HTTP Tunneling Two (2) H.264, Ten (10 **MJPEG**

Unlimited, H.264 and

Network Format

(100BaseT-TX) TCP, UDP, IPv4, IGMP, Network Protocol

ICMP, DNS, DHCP, RTP, RTSP, NTP, HTTP, ARP,

ONVIF Profile S

Ethernet 802.3

Media Players VLC, Quick Time or any

media player compliant with RFC 2326, 3984, 3550, 2435, ISO/IEC 13818-1

ONVIF Support Profile S

NETWORK INTERFACE

Cohu T, Profile S, NTCIP Camera Protocols

1205

Security Yes. 4 Levels





Camera Latency





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ON SCREEN DISPLAY (OSD)

IP VIDEO OSD

Up to four OSD elements are selectable for inclusion in the camera's two IP video streams.(Note: Three elements maximum on a single stream. The OSD elements display on top or bottom of image, on right side of video. The logo element displays on top or bottom of image on left side.

Standard Font Size

Camera Title 24 characters

Time/Date 24 Hour Format, Time Zone Logo Display xxx.bmp format, 96 x 96

> pixels maximum, in multiples of 32 pixels

Large Font Size

Camera Title 15 characters

EVENT MANAGEMENT

DIGITAL I/O

Digital Inputs Two (2) Sensor Inputs, Dry

contact, N.O or N.C

Two (2) Control Output, Digital Outputs

Open collector

TRIGGERS

Internal Timer Interval [Off, 1 Second to

999 hours], Duration [Off, 1 Second to Indefinate

Digital Inputs Active Input Triggers Action

ACTIONS

FTP Snapshot Captures Image and sends

to FTP site folder

Digital Output Activates a Digital Output **EMAIL**

Sends message to EMAIL

MECHANICAL

Construction Powder coated aluminum.

External parts corrosion protected with stainless

steel fasteners.

Weiaht 5.5 lbs (2.5 Kg) w/o wiper

9 lbs (4.1 kg) w/wiper

No Wiper: 15.0" D x 5.1" W x Dimensions

4.9" H [381 mm x 130 x 125] With Wiper: 15.0" D x 5.1" W x 7.5" H [381 mm x 130 x 191]

Connector Type 18 Pin MS

10 lbs [4.5 Kg], 20" x 13" x Shipping Dims

13" [508 mm x 330 mm x

330 mm]

ELECTRICAL

Input Voltage PoE+ 802.3at

Power 10 w heater/wiper off 25 w heater or wiper on

EN55022:2010 Transients

EN55024:2010

ENVIRONMENTAL

Protection Rating IP67, Pressurized with Dry

Nitrogen, 3.5 psi

Operating Temp -40°F to 165°F (-40°C to

74°C) Per NEMA TS2, para. 2.2.7.3 - 2.2.7.7 Note: Minimum

operating temperatures are with a 2 hour warm-up.

Water Spray Per IEC 60529+A1, 1999,

Para 14.2.6, Solid water stream delivered thru 12.5mm nozzle @ 25 gallons/minute @

9 ft for 3 minutes

Humidity 0-100%

Shock

Vibration Per Nema-TS2 para 2.1.10, 2.2.4

Per Nema-TS2 para 2.1.10,

Corrosion Prot. Per Nema 250-2003, para 5.10

CERTIFICATIONS

FCC Class A CISPR 22/24 ASTM-B117 Marine

ACCESSORIES

Mounts

7411498-001 Mast Arm Mount 7411498-002 Pole Mount 7411499-001 Pedestal Mount 7411499-002 Wall Mount

Cables

CA257 Series CA258 Series Connectors

MS Type 1310230-011

Power Supplies

PoE+ (IP50) 7411539-001

Wiper Blade

8139078-001 Replacement Assy













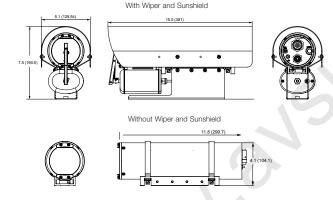
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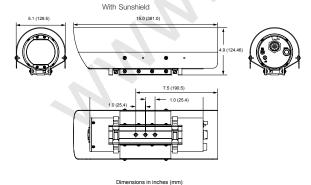


ORDERING MODEL NUMBERS

PRODUCT MODEL STRUCTURE				
<u>HD1 X - X X X X</u>	OPTIONS	OPTION DESCRIPTION		
	→ PRODUCT SERIES			
	HD1	HELIOS IP67 HIGH DEFINITION FIXED CAMERA SYSTEM		
<u> </u>	OPERATING POW	ER		
	1	POE, NETWORK SUPPLIED POWER		
	5	POE, INCLUDES MID-SPAN POE INJECTOR		
└ ┤┤	CAMERA OPTION	S		
	1	720P30 x18 HDTV CAMERA		
	2	720P30 x18 HDTV CAMERA, WITH FACEPLATE WIPER		
	3	720P30 x30 HDTV CAMERA WITH EIS AND DEFOG		
	4	720P30 x30 HDTV CAMERA WITH EIS AND DEFOG WITH FP WIPER		
SOFTWARE OPTIONS				
	0	STANDARD SUITE / NTCIP 1205 OVER IP		
<u> </u>	UNASSIGNED			
	0	NONE		
	SUNSHIELD			
	0	WITHOUT SUNSHIELD		
	1	WITH SUNSHILED		

DIMENSIONS





CONNECTOR PINOUT

Pin	Function		
D	TX+		
E	TX -		
F	RX+		
Н	RX -		
В	POE +		
С	POE +		
T	POE -		
K	POE -		
L	No Connection		
Α	No Connection		
R	No Connection		
S	No Connection		
J	ALM IN 1		
M	ALM IN 2		
N	ALM 3 (I/O)		
Р	ALM 4 (I/O)		
G	ALM COM		
U	Cable Shield		







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